

## Replacing Variable Gas Spring

Replace one gas spring at a time. To determine which gas spring is damaged, inspect the spring, looking for looseness in the cylinder or oil. Use a long piece of wood (2x4" or something similar), to help prop the door open during the replacement process. The handle is not strong enough to hold the door open by itself.

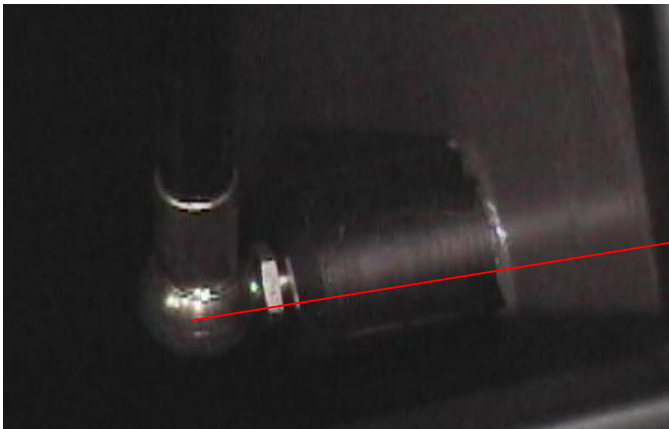


### Removing the Gas Spring/ Fitting:

1. If there is a spring that attaches the socket to the ball stud, it must be removed by pulling and rotating it out.
2. Remove the socket from the ball stud by wedging a wrench between the socket and the upper mounting block.
3. Remove the lower fitting from the enclosure.



*Remove gas spring by removing this socket fitting*



4. Remove the sockets from the damaged gas spring and attach to the new springs.
5. Install the new spring. This will require two people. The black cylinder should be installed on the upper block. The socket will pop onto the stud. Attach the bottom first. The second person may need to adjust the position of the door so that the socket slips onto the ball stud.



6. Use the springs to lock the socket to the stud.
7. Open and close the door to check the forces of the gas springs
8. These gas springs are adjustable, and you may need to reduce the pressure. The pressure needs to be reduced once the gas spring is on the enclosure. The adjustment is accomplished via the set screw at the top of the gas spring. This is an iterative process.
9. Open the set screw for 1-2 sec. and close it. Try to open and close the enclosure. If the pressure is still too strong repeat the process. **Be careful not to let out too much air, as this is irreversible.** Once you have set the correct pressure, tighten down the set screw so it does not leak air.

